



Missouri
Department of
Natural Resources

City of Independence
Power Plant Name: Blue Valley
Electric Generation and Emissions in 2010

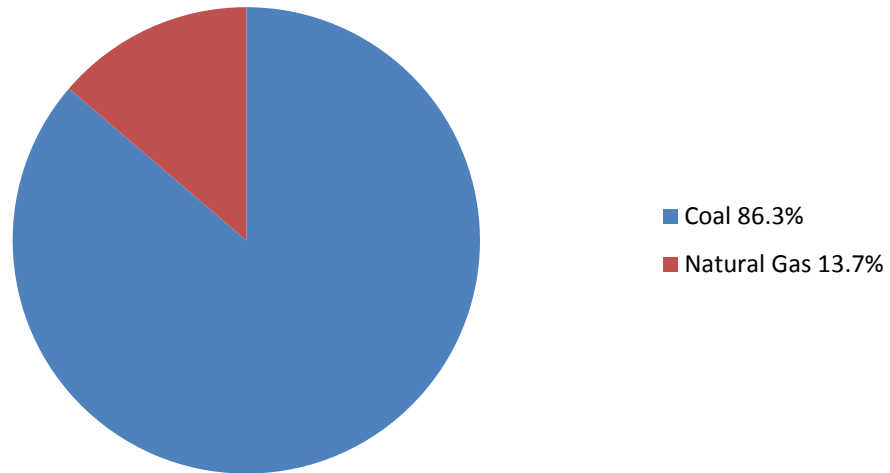
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	1,453,706	86.6%	86.6%	88,026	86.3%	86.3%
Natural Gas	224,155	13.4%	13.4%	13,993	13.7%	13.7%
Petroleum						
Nuclear						
Other						
Non-renewable total	1,677,861	100.0%	100.0%	102,019	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	1,677,861		100.0%	102,019		100.0%

Fuel Type	Physical Units	Number of Units
Anthracite Coal and Bituminous Coal	Short Tons	64,479
Natural Gas	MCf	222,416



Net Generation by Fuel Type, 2010 for Blue Valley





Missouri
Department of
Natural Resources

Power Plant Nameplate information for Blue Valley

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Blue Valley</i>		<i>All Operating Generators</i>			<i>704.0</i>
Blue Valley	Jackson	GT1	Combustion (Gas) Turbine (includes jet engine design)	Out of service	244.0
Blue Valley	Jackson	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	100.0
Blue Valley	Jackson	3	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	260.0
Blue Valley	Jackson	ST1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	100.0



Missouri
Department of
Natural Resources

Emissions from Electricity Generated in 2010: Blue Valley

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Blue Valley	5,362,346	651,072	71,495	10,354

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Blue Valley	8,139	0.0092	0.0092

Identified Flue Gas Desulfurization (FGD) controls installed on Blue Valley power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Blue Valley power plant

Plant	Control Equipment
Blue Valley	Electrostatic precipitator, cold side, without flue gas conditioning



Missouri Department of Natural Resources

Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>